bio-protocol Preprint

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Cells and Viruses

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An abbreviated version of this protocol was published in Science in Jun 2020

A noncompeting pair of human neutralizing antibodies block COVID-19 virus binding to its receptor ACE2

DOI: 10.1126/science.abc2241

Detailed protocol

HEK293T (ATCC CRL-3216) cells and Vero (ATCC CCL-81^{TM}) cells were cultured at 37 °C with 5% CO2 in Dulbecco's Modified Eagle medium (DMEM) supplemented with 10% fetal bovine serum (FBS). COVID-19 virus strain BetaCoV/shenzhen/SZTH-003/2020 (GISAID ID: EPI_ISL_406594) used in neutralization assay was isolated from the patient in Shenzhen Key Laboratory of Pathogen and Immunity, Shenzhen Third Peoples' Hospital. COVID-19 virus strain HB-01 used in the animal experiment was provided by Professor Wenjie Tan from Chinese center for disease control and prevention. Vero E6 cells were applied to the amplification and titer titration of the virus stocks.

How to cite:（Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used）

1. Wu, Y. , Gao, G. F. and Gao, F. (2021). Cells and Viruses. Bio-protocol Preprint. bio-protocol.org/prep879.
2. Wu, Y., Wang, F., Shen, C., Peng, W., Li, D., Zhao, C., Li, Z., Li, S., Bi, Y., Yang, Y., Gong, Y., Xiao, H., Fan, Z., Tan, S., Wu, G., Tan, W., Lu, X., Fan, C., Wang, Q., Liu, Y., Zhang, C., Qi, J., Gao, G. F., Gao, F. and Liu, L.(2020). A noncompeting pair of human neutralizing antibodies block COVID-19 virus binding to its receptor ACE2 . Science 368(6496). DOI: 10.1126/science.abc2241

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